

New Arduino Uno Project - Wokwi

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sketch.ino diagram.json Library Manager Simulation

```
1
2 #define ECHO_PIN 2
3 #define TRIG_PIN 3
4
5 void setup() {
6   Serial.begin(115200);
7   pinMode(LED_BUILTIN, OUTPUT);
8   pinMode(TRIG_PIN, OUTPUT);
9   pinMode(ECHO_PIN, INPUT);
10 }
11
12 float readDistanceCM() {
13   digitalWrite(TRIG_PIN, LOW);
14   delayMicroseconds(2);
15   digitalWrite(TRIG_PIN, HIGH);
16   delayMicroseconds(10);
17   digitalWrite(TRIG_PIN, LOW);
18   int duration = pulseIn(ECHO_PIN, HIGH);
19   return duration * 0.034 / 2;
20 }
21
22 void loop() {
23   float distance = readDistanceCM();
24
25   bool isNearby = distance < 100;
26   digitalWrite(LED_BUILTIN, isNearby);
27
28   Serial.print("Measured distance: ");
29   Serial.println(readDistanceCM());
30
31   delay(100);
32 }
33
34
```

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